Table B-19. TM 8-6530-004-24&P, Sterilizer

| ITEM NO | INTERVAL B | D | A | Q | S | ITEM TO BE INSPECTED AND PROCEDURE | EQUIPMENT IS NOT READY/AVAILABLE IF: |
|---|---|---|---|---|---|---|---|
| 1 | | | | | X | **Sterilizer.** | |
| | | | | | | *a.* Ensure that an inventory of the unit for all components and accessories was conducted. | Missing or damaged components or accessories prevent proper operation of the unit. |
| | | | | | | *b.* Ensure that the unit is set up and assembled properly. | The sterilizer cannot be assembled properly. |
| | | | | | | *c.* Remove chamber drain plug and inspect for lint and sediment from the strainer. | Buildup of sediment cannot be removed and prevents the chamber from draining. |
| | | | | | | *d.* Inspect interior surfaces of the chamber. | Chamber is damaged or corroded. |
| | | | | | | *e.* Ensure that the frame of the sterilizer is adequately grounded before operating on electrical power. Perform electrical safety test. | Unit is not adequately grounded or electrical safety hazard exists. |
| | | | | | | *f.* Inspect door for proper operation. Ensure hinges are properly lubricated. Inspect door gasket for damage or deterioration. | Sterilizer door does not function properly. |
| | | | | | | *g.* Inspect the case for damage. Ensure hinges and latches are properly lubricated. | Damage prevents proper operation of the unit. |
| 2 | | | | | X | **Sterilizer jacket.** | |
| | | | | | | **WARNING:** Lift the relief handle of the safety valve or turn operating valve to the dry position to release any pressure in the jacket before removing the plug from the filling funnel. Fill the sterilizer jacket with the purest water available and inspect for water leaks. Ensure the water in the sight glass is at least at ¼ mark. | Jacket leaks or cannot be filled with water. |
| 3 | | | | | X | **Sight glass.** | |
| | | | | | | *a.* Inspect sight glass for excessive mineral deposits. | Water level cannot be determined or is inaccurate. |
| | | | | | | *b.* Verify operation of the pressure control switch knob. Turn the pressure control switch knob to the maximum clockwise position. | Pressure control switch does not operate properly. |
| | | | | | | *c.* Verify operation of the operating valve. Inspect the valve for leaks. Ensure it is in the OFF position. | Operating valve leaks or does not operate properly. |
| | | | | | | *d.* Turn the heat switch on and verify that the red pilot light is glowing. | Heating elements do not energize. |
| | | | | | | *e.* Verify the increase in pressure and test the safety valve by depressing the safety lever. | Safety valve does not activate. Pressure does not increase. |

(continued) Appendix B. Repairer PMCS

(continued) Table B-19. TM 8-6530-004-24&P, Sterilizer

| ITEM NO | INTERVAL | | | | | ITEM TO BE INSPECTED AND PROCEDURE | EQUIPMENT IS NOT READY/AVAILABLE IF: |
|---|---|---|---|---|---|---|---|
| | B | D | A | Q | S | | |
| | | | | | | *f.* Verify that the pressure gauge indicates the desired pressure of 18 psi for 250°F or 29 psi for 270°F. | Desired steam pressure cannot be reached or pressure gauge is faulty. |
| | | | | | | *g.* Turn the pressure control switch knob slowly counterclockwise until the pilot light goes out. Verify that the pressure control cycles and maintains the selected pressure. **NOTE:** A pre-heat period of 10 to 15 minutes is recommended to allow the pressure to stabilize. There are no markings or calibration on the pressure control switch since temperature is a function of absolute pressure rather than gauge pressure. Depending on altitude and atmospheric conditions, reaching 270°F may require between 27 and 32 psi gauge pressure. The pressure switch must be adjustd to the pressure which will give the desired temperature. | Pressure control does not operate properly. Pilot light does not go out. |
| | | | | | | *h.* Load the sterilizer and verify proper operation. **CAUTION:** In the event that water in the jacket runs low, the low water cut-off will interrupt the power supply to the heaters. If this occurs, lift the RELIEF HANDLE on the safety valve to release any pressure in the jacket before removing plug from filling funnel. Wait until internal parts cool below the boiling point and refill the jacket with water and press the reset button (located under the heater box). Proceed with the regular operating cycle from the beginning. | Sterilizer does not operate properly. |
| 4 | | | | | X | **Gasoline heat.** | |
| | | | | | | *a.* **CAUTION:** When using gasoline heat, the sterilizer does not have low water cut-off protection. Use extreme caution when water level in the jacket falls below the ¼ mark. Be sure to remove heat before the water is exhausted. Fill jacket with water. Ensure that the sight glass shows the water level in the jacket to be at least on the ¼ mark. | Jacket cannot be filled with water. |
| | | | | | | b. Verify operation of the operating valve and ensure that it is in the OFF position. Inspect the valve for leaks. | Operating valve leaks or does not operate properly. |

(continued) Appendix B. Repairer PMCS

(continued) Table B-19. TM 8-6530-004-24&P, Sterilizer

| ITEM NO | INTERVAL | | | | | ITEM TO BE INSPECTED AND PROCEDURE | EQUIPMENT IS NOT READY/AVAILABLE IF: |
|---|---|---|---|---|---|---|---|
| | B | D | A | Q | S | | |
| | | | | | | *c.* Service and ignite the gasoline burner unit in accordance with manufacturer's instructions on the burner unit and insert it into the fire box of the sterilizer. Both side doors on the burner cavity should be left open unless partial closing is required to shield the burner from the wind. **WARNING:** The side doors should never be closed completely when the gasoline burner is being used. The door on the top of the unit must be open to permit venting of hot gases. | Gasoline burner is damaged or defective. |
| | | | | | | *d.* Reduce the flame by use of the burner controls to maintain the desired pressure of 18 psi for 250°F or 29 psi for 270°F. **NOTE:** A preheating period of 10 to 15 minutes is recommended to allow the pressure to stabilize. | Burner controls do not operate properly or desired pressure cannot be maintained. |
| | | | | | | *e.* Load the sterilizer and verify proper operation. **NOTE:** To prevent an overshoot of temperature when operating the sterilizer at 250°F, a pressure relief valve has been provided. | Sterilizer does not operate properly. |
| 5 | | | | | X | **Direct steam operation.** | |
| | | | | | | *a.* Open drain valve. Ensure proper operation. | Drain valve is defective. |
| | | | | | | *b.* Open steam supply valve. Ensure proper operation. | Steam supply valve does not operate properly. |
| | | | | | | *c.* Adjust pressure regulator to a desired pressure. Turning handle clockwise increases pressure, counterclockwise decreases pressure. **NOTE:** A preheating period of 10 to 15 minutes is recommended to stabilize pressure. Operation on direct steam requires the installation of a direct steam adapter kit. | Desired pressure cannot be maintained. |
| | | | | | | *d.* Load the sterilizer and verify proper operation. **WARNING:** To prevent possible injury to personnel resulting from bursting bottles and hot fluid, use only borosilicate (Pyrex) flasks with vented closures for sterilizing liquids. | Sterilizer does not operate properly. |